

## Message Text

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PAGE 01 ABU DH 01364 221046Z

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ACTION NEA-10

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R 220940Z MAY 76

FM AMEMBASSY ABU DHABI

TO USDOC WASHDC

INFO SECSTATE WASHDC 4372

AMEMBASSY ATHENS

AMEMBASSY DOHA

AMCONSUL DHAHRAN

AMEMBASSY JIDDA

AMEMBASSY KUWAIT

AMEMBASSY MANAMA

AMEMBASSY TEHRAN

LIMITED OFFICIAL USE ABU DHABI 1364

E.O. 11652: NA

TAGS: BTIO, TC

SUBJECT : MAJOR SEWER PROJECT IN ABU DHABI

ATHENS FOR RTDO

USDOC FOR CAGNE

1. BEGIN UNCLASSIFIED. ABU DHABI IS PLANNING A MAJOR SEWAGE TREATMENT PROJECT. BASICALLY, THE PLAN PROVIDESFOR BUILDING A LARGE NEW SEWAGE TREATMENT PLANT APPRXOXIMATELY 20 MILES INLAND AND EXTENSION OF THE SEWAGE MAINS FROM THE EXISTING PLANT SITE TO THE NEW PLANT. TREATED EFFLUENT WILL BE PIPED BACK TO THE CITY FOR IRRIGATION. COST OF THE PROJECT WAS ORIGINALLY ESTIMATED TO BE \$250 MILLION BUT IS NOW EXPECTED TO BE SUBSTANTIALLY HIGHER. THE NEW PLANT IS TO BEGIN OPERATIONS BY END OF 1978.

2. THE PROJECT WILL BE DIVIDED INTO SEVERAL PHASES:

A. SUPPLY OF REINFORCED FIBERGLASS PIPE TO CONVEY SEWAGE

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PAGE 02 ABU DH 01364 221046Z

AND TREATED EFFLUENT. THE FOLLOWING QUANTITIES WILL BE REQUIRED:

A. 24 KM OF 1100 MM DIA PIPE AT A WORKING HEAD OF 70 METERS OF WATER (INCL SURGE) TO CONVEY SEWAGE.  
B. 32 KM OF 1000 MM DIA PIPE AT A WORKING HEAD OF 50 METERS OF WATER (INCL SURGE) TO CONVEY TREATED EFFLUENT.  
C. 6 KM OF 1000 MM DIA GRAVITY PIPE AND ASSOCIATED WORKS. ALL THE ABOVE PRESSURE PIPES WILL BE AT NOMINAL DEPTHS WITH ONE METER COVER. THE GRAVITY SEWER WILL VARY IN DAPTH FROM 5 TO 10 METERS. THE WATER LEVEL IS APPROXIMATELY ONE METER BELOW GROUND LEVEL AND THE SUBSOIL CONSISTS MAINLY OF SAND.

C. CONSTRUCTION OF CIVIL WORKS FOR TWO PUMPING STATIONS AND THE SEWAGE TREATMENT PLAN. TREATMENT PLANT CIVIL WORKS WILL CONSIST OF INLET WORKS, CIRCULAR PRIMARY AND SECONDARY SETTLEMENT TANKS, AERATION TANKS, SLUDGE DRYING BEDS, BUILDINGS FOR TERTIARY TREATMENT PLANT, ADMINISTRATION BLOCK AND MAINTENCANCE BLOCK, STORAGE RESERVOIRS AND ASSOCIATED WORKS TO SERVE A POPULATION OF 480,000. PUMPING STATION CIVIL WORKS WILL CONSIST OF FOUNDATIONS (SIX AND TWELVE METERS DEEP) AND SUPERSTRUCTURE.

D. SUPPLY AND ERECTION OF CENTRIGUGAL SEWAGE PUMPS AND ASSOCIATED MECHANICAL AND ELECTRICAL EQUIPMENT FOR TWO MAJOR PUMPINJ STATIONS. PUMP CAPACITIES WILL RANGE FROM 1800 GPM (17 METER HEAD) TO 12,000 GPM (53 METER HEAD) (GALLONS ARE U.S.)

E. SUPPLY AND ERECTION OF THE SEWAGE TREATMENT PLANT WHICH WILL CONSIST OF SCREENS, DETRITORS, PRIMARY AND FINAL TANK SCRAPERS, SURFACE AERATORS, AND SLUDGE DIGESTION FACILITIES. PLANT WILL CONSIST OF TWO STAGES EACH DESIGNED TO SERVE A POPULATION OF 240,000. FIRST STAGE TO BE IN OPERATION AT END OF 1978. SECOND STAGE TO GO INTO OPERATION SIX MONTHS LATER.

### 3. TIMING:

A. CLOSING ON SUPPLY OF PIPE WILL BE IN MID-JULY. SOMEWHAT UNCLEAR WHETHER IT STILL POSSIBLE TO PREQUALIFY. SOME U.S. MANUFACTURERS OF RFG PIPE ALREADY INVOLVED THROUGH LOCAL FIPMS.  
B,C. D AND E TENDER INVITATIONS EXPECTED MID-JULY WITH CLOSING IN OCTOBER. CONSTRUCTION EXPECTED TO BEGIN AROUND FIRST OF 1977. TENDERS FOR SUPPLY AND ERECTION OF PUMPING STATIONS AND LIMITED OFFICIAL USE

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PAGE 03 ABU DH 01364 221046Z

TREATMENT PLANT EXPECTED TO BE OPEN TO PUBLIC, BUT TENDER DOCUMENTS WILL PROBABLY NOT BE SOLD TO VERY SMALL FIRMS. END UNCLASSIFIED.

4. BEGIN LIMITED OFFICIAL USE. EMB HAS BEEN INFORMED BY MAHMOUD OTHMAN, LEGAL ADVISER TO SHAIKH SURROUR, THAT SHAIKH ZAYED HAS MADE PROJECT COMPLETE RESPONSIBILITY OF SOROUR, AND THAT ABU DHABI GENERAL PROJECTS COMMITTEE WILL NOT BE IS9);3\$.

SOROUR AND HIS ADVISERS WILL BE ONES TO MAKE DECISION ON BIDS.

5. HARBERT-HOWARD, JOINT VENTURE OF TWO U.S. CONSTRUCTION COMPANIES WHICH IS NOW WORKING ON QU DHABI WATER MAINS PROJECT, HAS GAINED MUCH RESPECT HERE AND HAS BEEN ASKED TO SUBMIT BID ON INSTALLATION OF SEWAGE LINES AND ON SUPPLY AND ERECTION OF SEWAGE TREATMENT PLANT. FIRM INTENDS TO BID INSTALLATION OF LINES ON ITS OWN, BUT SEEKS JOINT VENTURE PARTNER FOR SEWAGE TREATMENT PLANT BID. FIRM APPEARS TO BE UNBEATABLE ON INSTALLATION OF LINES, AND EMB BELIEVES IT WOULD NOT BE FRUITFUL FOR OTHER U.S. FIRMS TO ENTER COMPETING BID. HARBERT-HOWARD WOULD, HOWEVER, WELCOME CONTACTS FROM LARGE U.S. FIRMS INTERESTED IN JOINT VENTURING THE SEWAGE TREATMENT PLANT. END LIMITED OFFICIAL USE.  
STERNER

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